



March 28, 2005

DESIGN MEMORANDUM No. 05-07
TECHNICAL ADVISORY

TO: All Design, Operations, District Personnel, and Consultants

FROM: /s/ Anthony L. Uremovich
Anthony L. Uremovich
Design Policy Engineer
Contracts and Construction Division

SUBJECT: Maximum Allowable Stress in H-Piles

EFFECTIVE: Design Approval On or After April 1, 2005

The INDOT *Standard Specifications* have been revised such that H-piles must now be ASTM A 572 Grade 345 (ASTM A 572 Grade 50.) The piling design should be based on a maximum allowable stress of $0.25F_y$, or $0.25 \times 345 \text{ MPa} = 86 \text{ MPa}$ ($0.25 \times 50 \text{ ksi} = 12.5 \text{ ksi}$).

For a project which received design approval before April 1, 2005, the piling design may be based on this requirement, or the prior one of $0.25 \times 250 \text{ MPa} = 62 \text{ MPa}$ ($0.25 \times 36 \text{ ksi} = 9 \text{ ksi}$). If the prior one is used, there can be no increase in design fee, if applicable.

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